

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. BOX 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/663,885	09/15/2000	Jeannette Whitcomb	2793/63122/JPW/JML/CMR	3908
20583 ~7590	11/18/2003		EXAMINER	
PENNIE AND E			PARKIN, JEFFREY S	
1155 AVENUE OF THE AMERICAS NEW YORK, NY 100362711			ART UNIT	PAPER NUMBER
			1648	
			DATE MAILED: 11/18/2003	. 14

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No. Applicant(s)				
	09/663,885	WHITCOMB, JEANNETTE			
Office Action Summary	Examiner	Art Unit			
	Jeffrey S. Parkin, Ph.D.	1648			
The MAILING DATE f this communication appears on the cover she t with the c rresp ndence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>0.3</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status					
1) Responsive to communication(s) filed on 25 A	ugust 2003.				
2a)⊠ This action is FINAL . 2b)□ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 18-46 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 18-46 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. §§ 119 and 120					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 					
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) latent Application (PTO-152)			

 Serial No.: 09/663,885
 Docket No.: 2793/63122

 Applicant: Whitcomb, J.
 Filing Date: 09/15/00

Response to Amendment

Status of the Claims

1. Acknowledgement is hereby made of receipt and entry of the amendment filed 25 August, 2003, wherein claims 1-17 were canceled without prejudice or disclaimer and new claims 18-46 introduced. Claims 18-46 are currently under examination.

35 U.S.C. § 112, Second Paragraph

5

10

15

20

25

- 2. The previous rejection of claims 1-9 under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention, is most in view of applicant's response.
- 3. The previous rejection of claims 1-4 under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention, is most in view of applicant's response.
- 4. Newly presented claims 18-46 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Two separate requirements are set forth under this statute: (1) the claims must set forth the subject matter that applicants regard as their invention; and (2) the claims must particularly point out and distinctly define the metes and bounds of the subject matter that will be protected by the patent grant. The claims still reference a "mutation at codon 66" that correlates with a certain non-nucleoside reverse transcriptase inhibitor (NNRTI) phenotype which is vague and indefinite because the claims fail to identify the structural changes that take place at both the genotypic and phenotypic level. Some genotypic

mutations may be silent at the phenotypic level. Other genotypic mutations may result in a phenotypic change that has no effect on Accordingly, it is imperative that the the NNRTI phenotype. precise mutation responsible for the desired phenotype designated in the claim language. Absent further clarification and amendment of the claim language, the metes and bounds of the patent desired cannot be ascertained. Applicant's protection representative is invited to contact the Examiner to discuss proposed claim language that may obviate the rejection.

10

15

20

25

30

5

- 5. Newly presented claims 18-46 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims are directed toward a method of assessing the NNRTI phenotype susceptibility by measuring changes in the HIV-1 integrase. NNRTIs are non-nucleoside reverse transcriptase inhibitors (e.g., delavirdine, nevirapine, and efavirenz) that target the HIV-1 reverse transcriptase (RT), not the integrase (IN). Thus, it is not readily manifest how the detection of a genotypic change in the IN would correlate to an RT phenotype. Appropriate correction is required.
- 6. Applicants argue that the new claims remove any ambiguities concerning the claim language. This argument is not deemed to be persuasive for the reasons of record set forth in the preceding paragraphs.

35 U.S.C. § 112, First Paragraph

7. The following is a quotation of the first paragraph of 35 U.S.C. § 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most

nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

8. The previous rejection of claims 1-4 and 9 under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention, is moot in view of applicant's response.

5

10

15

20

25

30

- 9. The previous rejection of claims 5-8 under 35 U.S.C. § 112, first paragraph, because the specification does not reasonably enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims, is most in view of applicant's response.
- Newly submitted claims 18-46 are rejected under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The claims are directed toward a method of assessing the effectiveness of NNRTI therapy in an HIV-infected patient by measuring genotypic changes wherein said changes correlate with increased IN, susceptibilities to delavirdine, neveriapine, and efavirenz. claims are not enabled because the disclosure fails to provide a correlation between NNRTI-resistance and genotypic changes in the specific inhibitors of the HIV-1 reverse NNRTIs are They do not target the IN but are specific for the transcriptase. Thus, genotypic changes in the IN would not be expected to correlate with MNRTI-drug susceptibility. Accordingly, the skilled artisan could not practice the invention as currently claimed.

11. Applicant argues that the specification fully supports the claimed invention. These arguments are not deemed to be persuasive for the reasons set forth in the preceding paragraph.

Finality of Office Action

12. Applicant's amendment necessitated any and all new grounds of rejection. Accordingly, THIS ACTION IS MADE FINAL. See M.P.E.P. § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a). A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED **STATUTORY** PERIOD, THEN THE STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

20

25

30

35

5

10

15

Correspondence

- 13. Correspondence related to this application may be submitted to Group 1600 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). Official communications should be directed toward one of the following Group 1600 fax numbers: (703) 308-4242 or (703) 305-3014. Informal communications may be submitted directly to the Examiner through the following fax number: (703) 308-4426. Applicants are encouraged to notify the Examiner prior to the submission of such documents to facilitate their expeditious processing and entry.
- 14. Any inquiry concerning this communication should be directed to Jeffrey S. Parkin, Ph.D., whose telephone number is (703) 308-2227. The examiner can normally be reached Monday through Thursday from 8:30 AM to 6:00 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner are

unsuccessful, the examiner's supervisors, James Housel or Laurie Scheiner, can be reached at (703) 308-4027 or (703) 308-1122, respectively. Any inquiry of a general nature or relating to the status of this application should be directed to the Group 1600 receptionist whose telephone number is (703) 308-0196.

Respectfully,

5

Jeffrey S. Parkin, Ph.D.

Patent Examiner Art Unit 1648

14 November, 2003

LAURIE SCHEINER
PRIMARY EXAMINER